CENTER FOR DRUG EVALUATION AND RESEARCH

APPLICATION NUMBER: 83607

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SING DAMESS

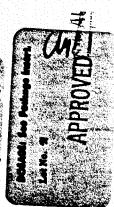
SEC 0921-1777-17 C. L. Paris

HYDROCHLOROTHAZIDE

TABLETS, U.S.P.

50 mg.

MANUFACTURED FOR
WOLINS PHARMACAL CORP.
MELVILLE, NEW YORK 11746



EXP.UATE BICHTYN LABORATORIES, WC. PHILADELPHIA, PA. 19124 NDC 0537-2332-01

DOSAGE: See package insert.

100 TABLETS C.T. Peach Scored
HYDROCHLOROTHIAZIDE TABLETS, U.S.P. 50 mg.

CAUTION: Federal law prohibits dispensing without prescription.
See insert for full particulars.

EXP.DATE RICHLYN LABINATIONES, WC. PHILADELPHIA, PA. 19124

NDC 0537-2332-10

1000 TABLETS C. T. Peach Scored
HYDROCHLOROTHIAZIDE TABLETS, U.S.P. 50 mg.

CAUTION: Federal law prohibits dispensing without prescription. See insert for full particulars.

DOSAGE: See package insert. Lot No.

SPENCER-MEAD INC.
VALLEY STREAM, N.Y. 11582

Mid. by RIDILYN LABRATORIES, JES. PEILADELPHIA, PA. 19124 EXP.DATE

NDC 0814-3725-14

100 TABLETS C.T. Peach Scored
HYDROCHLOROTHIAZIDE
TABLETS, U.S.P.
50 mg.
CAUTION: Pederal law prohibits
dispensing without law prohibits
dispensing without preceription.
See insert for full particulars.

Manufactured to

INTERSTATE DRUG EXCHANGE, INC.
PLAINVIEW, L.I., N.Y. 11803

NDC 0814-3725-30

1000 TABLETS C. T. Peach Scored

HYDROCHLOROTHIAZIDE TABLETS, U.S.P.

50 mg.
CAUTION: Federal law prohibita dispensing without prescription. See insert for full particulars.

Manufactured for

INTERSTATE DRUG EXCHANGE, INC. PLAINVIEW, L.I., N.Y. 11803

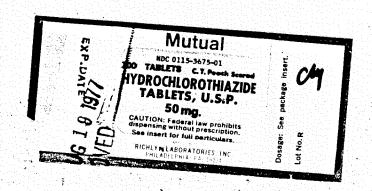
Let No. R.

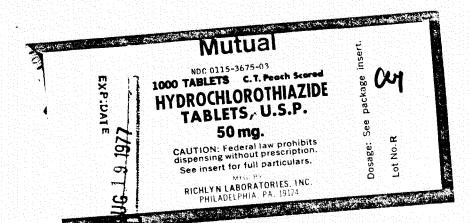
EXP. DATE

Manufactured by RICHLYN LABORATORIES, INC. Philadelphia, PA 19124 50 mg. EXP.DATE

DOSAGE: See Package Insert.

Lot No.





HYDROCHLOROTHIAZIDE TABLETS

DESCRIPTION: Hydrochlorothiazide is the 3,4-dihydro derivative of chlorothiazide. Its chemical name is 6-chlorof-zulfamyl-3, 4-dihydro-1,2,4-bansothiadiasine-1,1-dioride. It is a white, or practically white, crystalline powder with low solubility in water, but is readily soluble in dilute aqueous sedium hydroxide.

ACTIONS: Thiszides affect the renal tubular machanism of elactrolyne re-absorption. At maximal thesapeutic dosage all thiszides are approximately equal in their diuretic potency.

Thiszides increase excretion of sodium and chloride in approximately equivalent amounts. Matriuresis causes a secondary loss of potassium and bicarbonate. The mechanism of the antihypertensive effect of thiszides in unknown. Thiszides do not affect normal blood pressure.

Onset of action of thiszides occurs in 2 hours and the peak effect at about 4 hours. The action persists for approximately 6 to 12 hours. Thiszides are

INDICATIONS: Hydrochlorothiazide is indicated as adjunctive therapy in edema associated with congestive heart failure, hepatic cirrhosis and corticosteroid and estrogen therapy.

Bydrochlorothiazide has also been found useful in edema due to various forms of renal dysfunction as: nephrotic syndrome; acute glomerulonephritis; and

eliminated rapidly by the kidney.

mephrotic syndrome; acute glomerulonephritis; and chronic renal failure.

Hydrocklorothiazide is indicated in the management of hypertension either as the sole therapeutic agent or to enhance the effectiveness of other antihypertensive drugs in the more severe forms of hypertension. Usage in Pregnancy: The routine use of diuretics in an otherwise healthy woman is inappropriate and exposes mother and fetus to unnecessary hazard. Diuretics do not prevent development of toxemia of pregnancy, and there is no satisfactory evidence that they are useful in the treatment of developed toxemia. Edema during pregnancy may arise from pathological causes or from the physiologic and mechanical consequences of pregnancy. Thizaides are indicated in pregnancy when edema is due to pathologic causes, just as they are in the absence of pregnancy (however, see WARNINGS below). Dependent edema in pregnancy, resulting from restriction of venous return by the expanded uterus, is properly treated through elevation of the lower extremities and use of support hose; use of diuretics to lower intravascular volume in this case is illogical and unnecessary. There is hypervolemia during normal pregnancy which is harmful to neither the fetus nor the mother (in the absence of cardiovascular disease), but which is associated with edema, including generalized edema, in the majority of pregnant women. If this edema produces discomfort, increased recumbency will often provide relief. In rare instances, this edema may cause extreme discomfort which is not relieved by rest. In these cases, a short course of diuretics may provide relief and may be appropriate:

CONTRAINDICATIONS: Anuria. Hypersensitivity to this or other sulfonamidederived drugs.

WARNINGS: Thiazides should be used with caution in severe renal disease. In patients with renal disease, thiazides may precipitate azotemia. Cumulative effects of the drug may develop in patients with impaired renal function. Thiazides should be used with caution in patients with impaired hepatic function or progressive liver disease, since minor alterations of fluid and electrolyte balance may precipitate hepatic coma. Thiazides may add to or potentiate the action of other antihypertensive drugs. Potentiation occurs with ganglionic or peripheral adrenergic blocking drugs.

Sensitivity reactions may occur in patients with a history of allergy or bronchial asthma. The possibility of exacerabation or activation of systemic lupus erythematosus has been reported. Usage in Pregnancy: Thiazides cross the placental barrier and appear in cord blood. The use of thiazides in pregnant women requires that the anticipated benefit be weighed against possible hazards to the fectus. These hazards include fetal or neonatal jaundice, thrombocytopenia, and possibly other adverse reactions which have occurred in the adult.

Nursing Mothers: Thiazides appear in breast milk. If the use of the drug is deemed essential, the patient should stop nursing.

PRECAUTIONS: Periodic determination of serum electrolytes to detect possible electrolyte imbalance should be performed at appropriate intervals. All patients receiving thiazide therapy should be observed for clinical signs of fluid or electrolyte imbalance: namely, hyponatremia, hypochloremic alkalosis, and hypokalemia. Serum and urine electrolyte determinations are particularly important when the patient is vomiting excessively or receiving parenteral fluids. Medication such as digitalis may also influence serum electrolytes. Warning signs, irrespective of cause are: dryness of mouth, thirst, weakness, lethargy, drowsiness, restlessness, muscle pains or cramps, muscular fatigue, hypotension, oliguria, tachycardia, and gastrointestinal disturbances such as nausea and vomiting. Rypokalemia may develop, especially with brisk diuresis, when severe cirrhosi is present, or during concomitant use of corticosteroids or ACTH.

Interference with adequate oral electrolyte intake will also contribute to hypokalemia. Bypokalemia can sensitize or amaggerate the response of the heart to the tox'c effects of digitalis (a.g., increased ventricular irritability). Bypokalemia may be avoided or treated by use of potassium supplements such as foods with a high potassium content.

Any chloride deficit is generally mild and usually does not require specific treatment except under extraordinary circumstances (as in liver disease or renal disease). Dilutional hyponatremia may occur in edematous patients in hot weather; appropriate therapy is water restriction, rather than administration of salt except rare instances when the hyponatremia is life threatening. In actual salt depletion, appropriate replacement is the therapy of choice. Byperuricemia may occur or frank gout may be precipitated in certain patients receiving thiazide therapy. Interference with adequate oral electrolyte intake therapy. Insulin requirements in diabetic parients may be increased, decreased, or unchanged. Diabetes mellitus which has been latent may become manifest during thiszide administration. Thiazide drugs may increase the responsiveness to tubocurarine. The anthypertensive effects of the drug may be enhanced in the post-sympathectomy patient. Thiazides may decrease arterial responsiveness to norepinephrine. may decrease arterial responsiveness to notephinemia. This diminution is not sufficient to preclude effectiveness of the pressor agent for therapeutic use. If progressive renal impairment becomes evident, consider withholding or discontinuing diuretic therapy. Thiazides may decrease serum PBI levels without signs of thyroid disturbance. Calcium excretion is decreased by thiszides.

ological changes in the parathyroid gland with hyper-calcemia and hypophosphatemia have been observed in a few patients on prolonged thave been observed in a few patients on prolonged thiazide therapy. The common complications of hyperparathyroidism such as renal lithiasis, bone resorption, and peptic ulceration have not been seen. Thiazides should be discontinued before carrying out tests for parathyroid function.

ADVERSE REACTIONS

A. GASTROINTESTINAL SYSTEM
1. anorexia 7 constipation

jaundice (intra-hepatic cholestatic 2. gastric irritation 3. nausea

4. vomiting 5. cramping 9. pancreatitis 6. diarrhea 10. sialadenitis

CENTRAL NERVOUS SYSTEM

B. CENIMO.
dizziness headache 5. xanthopsia paresthesias

HEMATOLOGIC

C. HEMAL... leukopenia 3. thrombocytopenia agranulocytosis 4. aplastic anemia

D. CARDIOVASCULAR
 Orthostatic hypotension (may be aggravated by alcohol, barbiturates, or narcotics).

HYPE RSENSITIVITY

1. purpura
2. photosensitivity
3. rash 7. respiratory distress including pneumonitis
8. anaphylactic reactions urticaria
 necrotizing angiitis

(vasculitis)

F. OTHER hyperglycemia 5. weakness glycosuria
 hyperuricemia
 muscle spasm restlessness
 transient blurred vision

Whenever adverse reactions are moderate or severe, thiazide dosage should be reduced or therapy withdrawn.

DOSAGE AND ADMINISTRATION: Therapy should be individualized according to patient response. This therapy should be titrated to gain maximal therapeutic response as well as the minimal dose possible to maintain that therapeutic response.

The usual daily dosages for antihypertensive and diurctic effect are roughly comparable as well as the oral and nevertensive. the oral and parenteral dosages.

DIURETIC USE: 25 to 100 mg. once or twice a day. ANTIHYPERTENSIVE USE:
25 to 50 mg, once or twice a day.

PEDIATRIC
Usual dosage is based on 1 mg./lb./day, given as 2 doses.
(Note: Infants under 6 months of age may require

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HOW SUPPLIED: Each scored, peach, compressed tablet contains the label-stated dose (25 mg. or 50 mg. or 100 mg.) of hydrochlorothiazide.

AUGUST, 1976